

N. PLATTE/LEE BIRD NE

Latitude = 41.13 N

WMO No. 725620

Longitude = 100.60 W

Elevation = 2786 feet

Period of Record = 1973 to 1996

Average Pressure = 27.07 inches Hg

Design Criteria Data

	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(°F)				
Median of Extreme Highs	101	70	74	12.4	S
0.4% Occurrence	96	70	81	11.6	S
1.0% Occurrence	92	70	84	11.7	S
2.0% Occurrence	89	69	83	11.8	S
Mean Daily Range	26	-	-	-	-
97.5% Occurrence	4	3	5	8.5	NW
99.0% Occurrence	-4	-5	3	7.9	NW
99.6% Occurrence	-10	-11	2	6.8	NW
Median of Extreme Lows	-17	-17	2	6.5	NNW
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T_{wb})	(°F)				
Median of Extreme Highs	76	90	127	11.0	ESE
0.4% Occurrence	74	88	116	11.0	S
1.0% Occurrence	72	87	106	10.9	S
2.0% Occurrence	71	86	102	11.0	S
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)	(gr/lb)				
Median of Extreme Highs	136	79	0.82	8.6	ESE
0.4% Occurrence	119	82	0.72	10.6	ESE
1.0% Occurrence	114	79	0.69	9.9	ESE
2.0% Occurrence	106	77	0.65	9.6	ESE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		81	691	69	646

Other Site Data

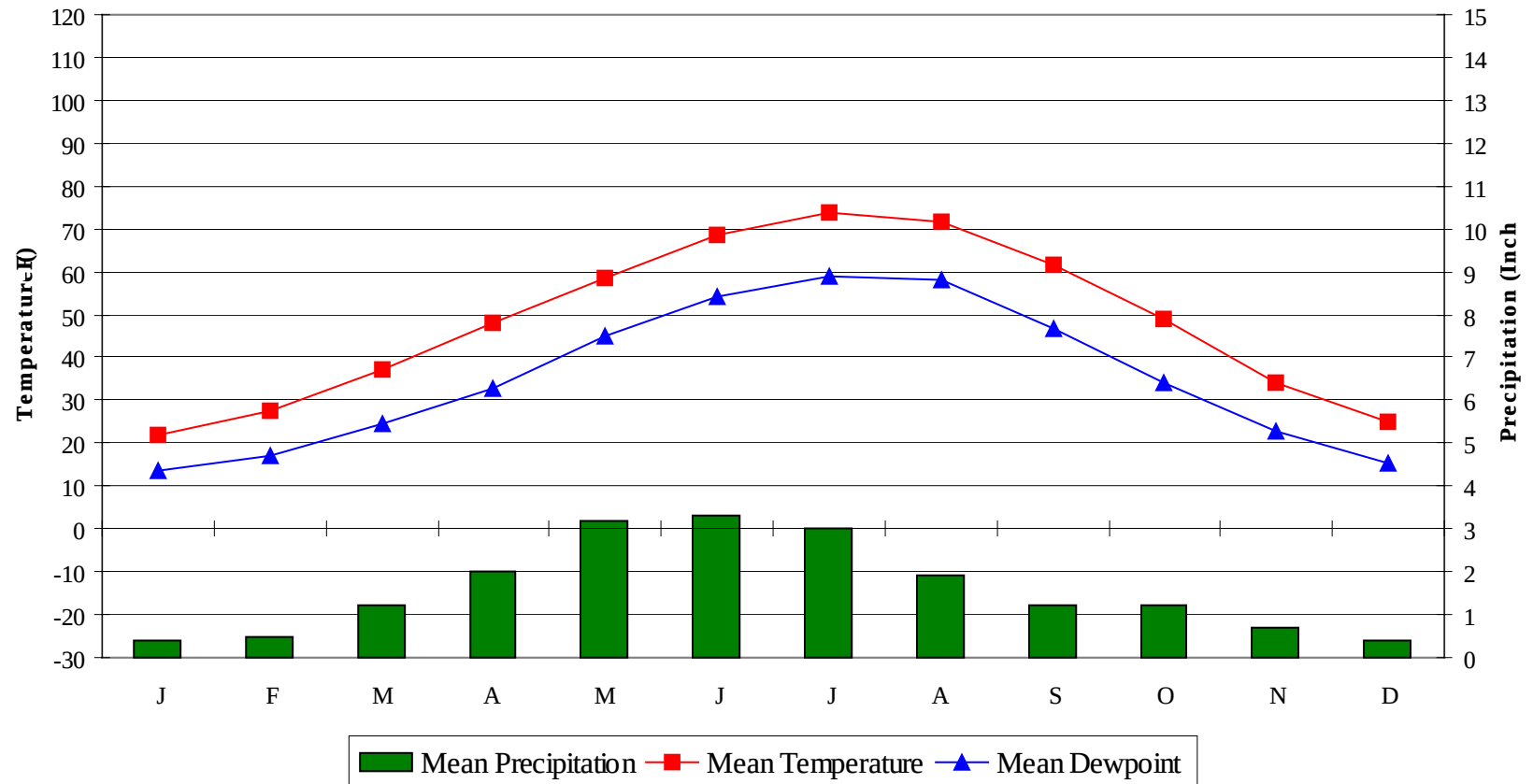
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
5	3.5	90	0.5 + 0.7
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
50.6	N/A	13	120

*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

N. PLATTE/LEE BIRD NE

WMO No. 725620

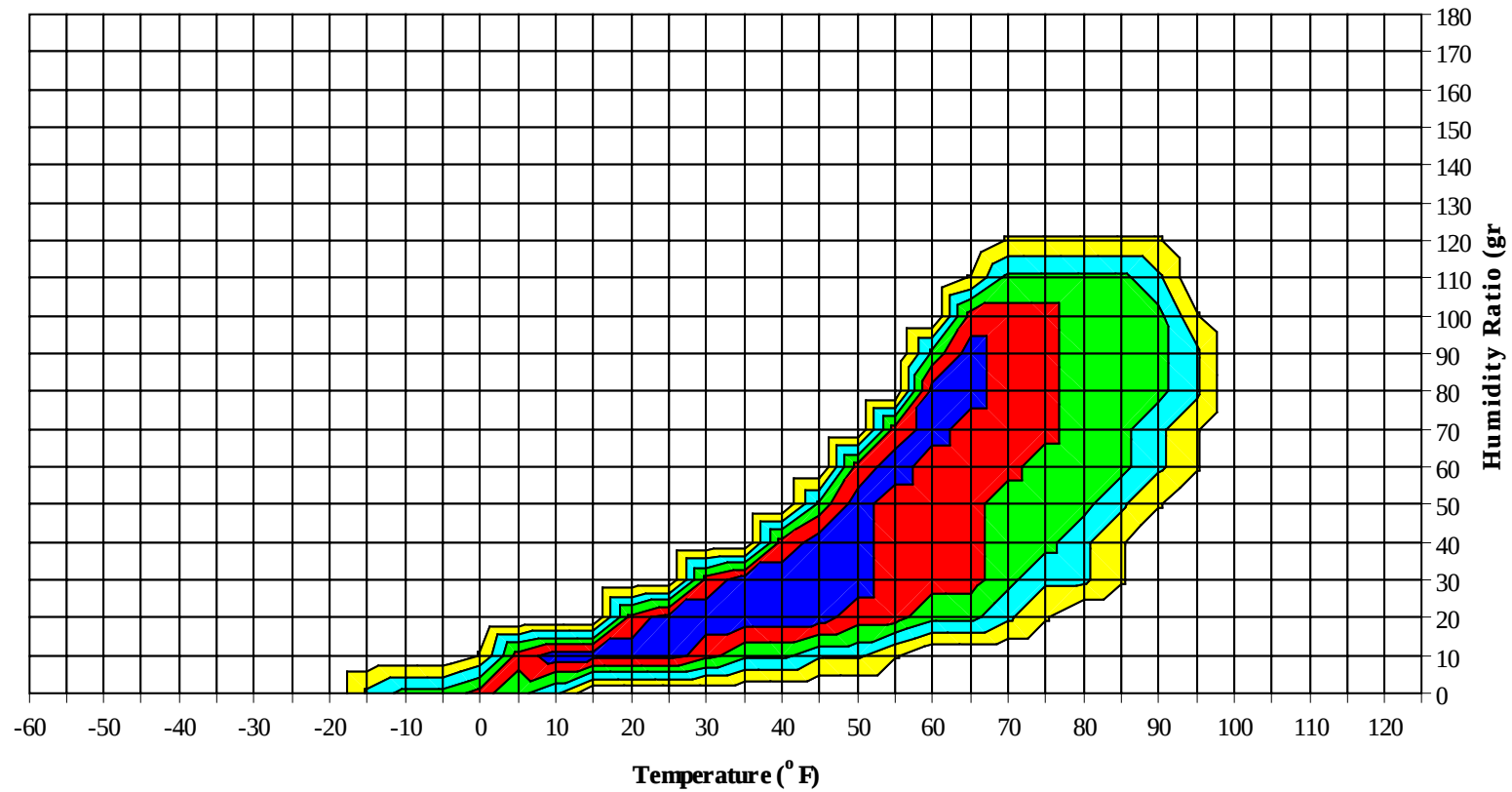
Average Annual Climate



N. PLATTE/LEE BIRD NE

WMO No. 725620

Long Term Psychrometric Summary

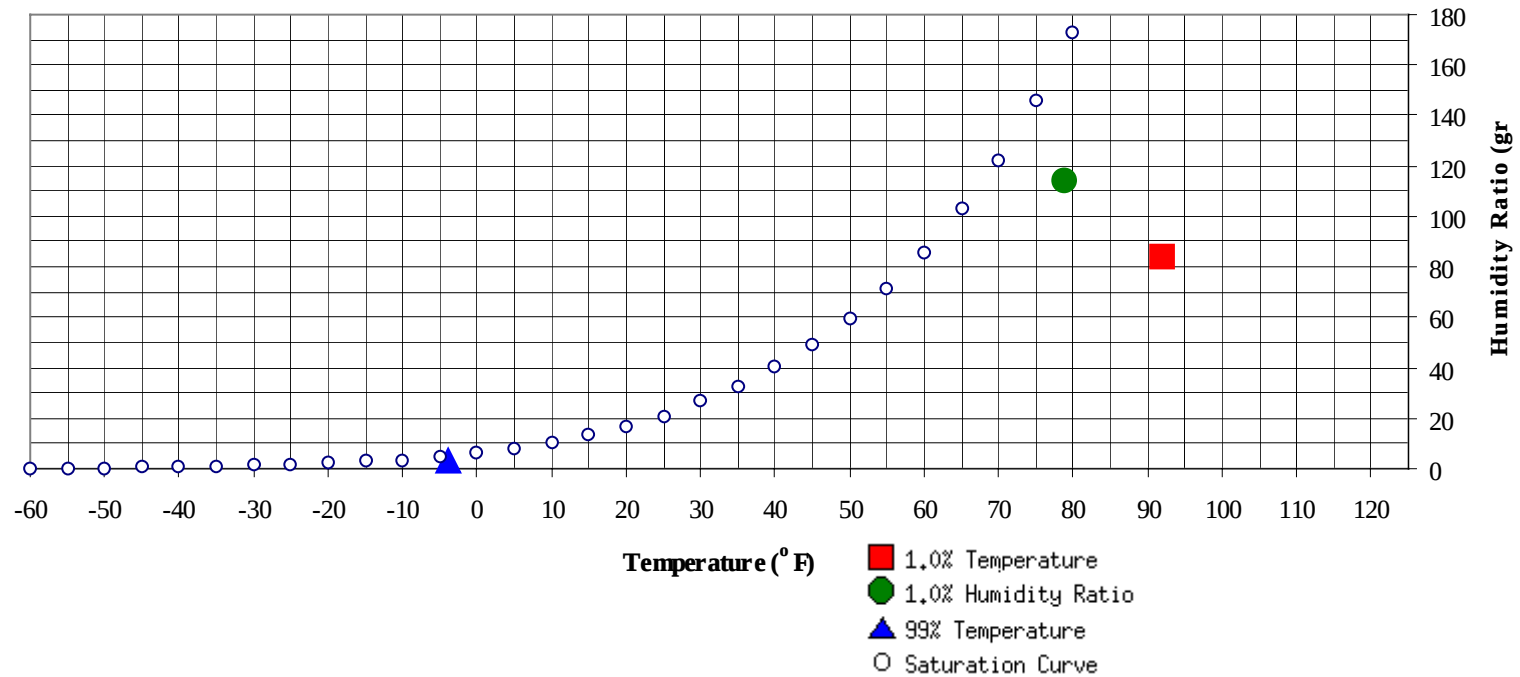


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

N. PLATTE/LEE BIRD NE

WMO No. 725620

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	-4	3.4	-0.4		114.1	78.9	71.2	68	36.8

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	92	83.7	69.5	35.3

N. PLATTE/LEE BIRD NE

WMO No. 725620

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	January					February					March				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
105 / 109															
100 / 104															
95 / 99															
90 / 94															
85 / 89												0		0	55.0
80 / 84											1	1		2	54.3
75 / 79							0		0	50.8	2	1		3	52.6
70 / 74		0		0	46.5		1	0	1	50.3	7	3		10	50.6
65 / 69		1	0	1	45.5		3	1	4	47.3		11	5	16	49.0
60 / 64		2	0	2	44.6		8	3	11	45.3	0	15	9	25	46.5
55 / 59		4	1	4	42.0		11	4	16	43.0	1	19	13	33	44.3
50 / 54	0	8	2	11	40.0	0	13	8	21	40.4	2	24	20	47	41.9
45 / 49	0	15	5	20	37.5	1	19	12	32	37.7	10	29	26	65	39.6
40 / 44	2	23	12	37	34.9	5	23	21	48	35.4	20	34	35	88	36.7
35 / 39	8	31	25	64	32.0	15	28	27	71	32.6	43	36	41	120	33.4
30 / 34	23	32	40	95	28.9	31	30	43	104	29.1	57	31	39	127	29.6
25 / 29	38	27	45	110	24.8	47	23	32	102	25.0	47	16	26	88	25.0
20 / 24	45	27	31	103	20.5	40	17	22	79	20.5	33	11	16	59	20.5
15 / 19	37	22	22	81	15.8	25	13	14	52	15.6	15	6	7	27	15.7
10 / 14	28	18	19	66	10.8	20	13	15	48	10.8	10	3	4	17	10.7
5 / 9	21	16	15	52	6.1	13	7	8	28	6.0	5	2	2	9	6.3
0 / 4	17	12	15	44	1.1	10	6	6	22	1.1	2	1	1	4	1.3
-5 / -1	11	4	6	21	-3.0	6	2	3	12	-2.9	2	0	0	2	-3.2
-10 / -6	9	3	5	17	-7.5	5	2	3	10	-7.6	1	0	0	1	-7.1
-15 / -11	5	1	3	9	-12.3	4	1	2	7	-12.0	1			1	-11.4
-20 / -16	4	1	0	5	-16.4	2	0	0	3	-16.4					
-25 / -21	0	0		0	-20.1	0			0	-21.0					
-30 / -26															
-35 / -31															

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1973 to 1996**

Temperature Range (°F)	April					May					June				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
105 / 109															
100 / 104												1	0	1	70.5
95 / 99		0	0	0	61.7							4	2	5	71.0
90 / 94		1	0	1	60.4		1	0	1	65.0	0	14	6	20	69.7
85 / 89		4	2	5	58.2		5	2	7	63.4	0	26	15	42	68.2
80 / 84		5	3	8	58.3		14	7	21	62.8	1	41	26	68	66.5
75 / 79		11	6	17	56.1	0	29	15	45	60.7	5	47	35	86	64.0
70 / 74	0	17	9	26	53.8	1	41	26	69	58.5	17	46	40	104	61.9
65 / 69	1	21	15	37	52.1	9	43	34	86	56.2	43	32	42	116	60.1
60 / 64	4	30	21	55	49.2	25	42	43	110	54.0	63	17	37	118	57.2
55 / 59	10	33	28	71	47.0	47	31	42	120	51.6	53	7	23	83	53.4
50 / 54	24	33	33	90	44.6	56	22	38	116	48.0	33	3	10	46	49.1
45 / 49	34	29	35	98	41.4	50	14	26	90	43.7	18	1	4	23	45.1
40 / 44	42	25	34	101	37.9	33	4	12	50	39.7	7		1	7	41.1
35 / 39	48	18	29	96	34.1	17	1	3	20	35.3	1			1	37.4
30 / 34	42	9	17	68	30.0	8	0	1	8	30.4					
25 / 29	23	3	6	32	25.4	2		0	2	26.2					
20 / 24	8	0	2	10	21.0	0			0	21.1					
15 / 19	3	0	0	3	16.3										
10 / 14	1	0	0	2	10.5										
5 / 9	0	0	0	0	7.4										
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

N. PLATTE/LEE BIRD NE

WMO No. 725620

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	July					August					September				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
105 / 109		0	0	0	67.6										
100 / 104		3	1	4	69.5		1	0	2	69.9		0		0	65.3
95 / 99		14	6	20	70.0		8	4	12	70.2		2	1	3	66.5
90 / 94		29	17	47	70.2		24	10	34	69.8		10	3	13	66.3
85 / 89	0	42	25	67	69.2	0	40	20	60	68.9		19	7	27	64.7
80 / 84	2	54	38	93	67.5	1	49	31	81	67.4	0	26	13	38	63.2
75 / 79	14	48	42	104	65.6	7	47	40	94	65.6	1	33	21	55	61.4
70 / 74	44	32	44	120	64.2	29	40	48	117	64.0	7	35	27	69	59.5
65 / 69	74	15	42	131	62.2	66	22	45	134	62.0	17	32	32	81	57.6
60 / 64	71	7	26	103	59.0	76	10	32	119	58.7	37	32	41	110	55.6
55 / 59	32	2	6	41	55.1	44	4	12	60	54.6	44	24	34	102	52.0
50 / 54	11	0	1	11	50.8	18	1	5	25	50.3	46	15	30	91	48.1
45 / 49	2		0	2	46.0	6	0	1	7	46.1	34	6	15	55	43.7
40 / 44	0			0	42.5	2	0	0	2	41.0	26	3	10	39	39.3
35 / 39						0			0	37.5	16	1	5	23	35.3
30 / 34											8	1	2	11	30.2
25 / 29											2	0	0	3	25.8
20 / 24											0	0		0	20.3
15 / 19											0	0		0	17.0
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

N. PLATTE/LEE BIRD NE

WMO No. 725620

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	October					November					December				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
105 / 109															
100 / 104															
95 / 99															
90 / 94		0		0	58.3										
85 / 89		4	1	4	58.4										
80 / 84		9	2	12	56.9										
75 / 79		14	5	19	55.7		1		1	52.9					
70 / 74		21	8	29	53.6		5	0	5	51.3		0		0	49.8
65 / 69	1	28	14	43	51.9		8	2	9	49.2		1		1	46.9
60 / 64	5	32	21	57	50.1		12	3	15	46.9		4	1	5	45.1
55 / 59	12	34	32	78	48.1	0	17	6	24	44.8		7	1	8	42.8
50 / 54	22	35	41	98	45.2	4	24	14	42	42.5	0	13	4	17	40.1
45 / 49	36	28	38	103	41.8	7	26	21	55	39.5	1	18	6	24	37.4
40 / 44	49	20	37	106	38.3	16	29	29	74	36.4	3	22	14	39	34.6
35 / 39	51	12	28	91	34.2	27	32	39	98	33.0	10	31	26	67	31.9
30 / 34	42	6	15	62	30.0	48	34	44	126	29.4	23	36	40	99	28.6
25 / 29	18	1	6	24	25.6	50	21	37	107	25.0	43	37	48	128	24.7
20 / 24	9	1	1	11	21.4	38	12	20	70	20.4	50	27	41	118	20.4
15 / 19	3	1	1	4	16.1	25	8	11	44	15.8	45	18	26	89	15.9
10 / 14	2	0	0	2	12.3	12	5	8	25	10.7	31	12	16	58	11.0
5 / 9						7	3	4	15	6.1	15	9	10	34	6.1
0 / 4						5	1	2	7	1.8	10	6	7	23	1.3
-5 / -1						2	0	1	2	-2.9	4	2	4	10	-3.1
-10 / -6						1	0	0	1	-6.8	5	3	4	12	-7.9
-15 / -11						0			0	-11.5	3	2	2	7	-12.1
-20 / -16											2	0	0	3	-17.0
-25 / -21											1	0	0	1	-22.0
-30 / -26											0	0	0	1	-27.4
-35 / -31											0	0		0	-30.7

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

N. PLATTE/LEE BIRD NE

WMO No. 725620

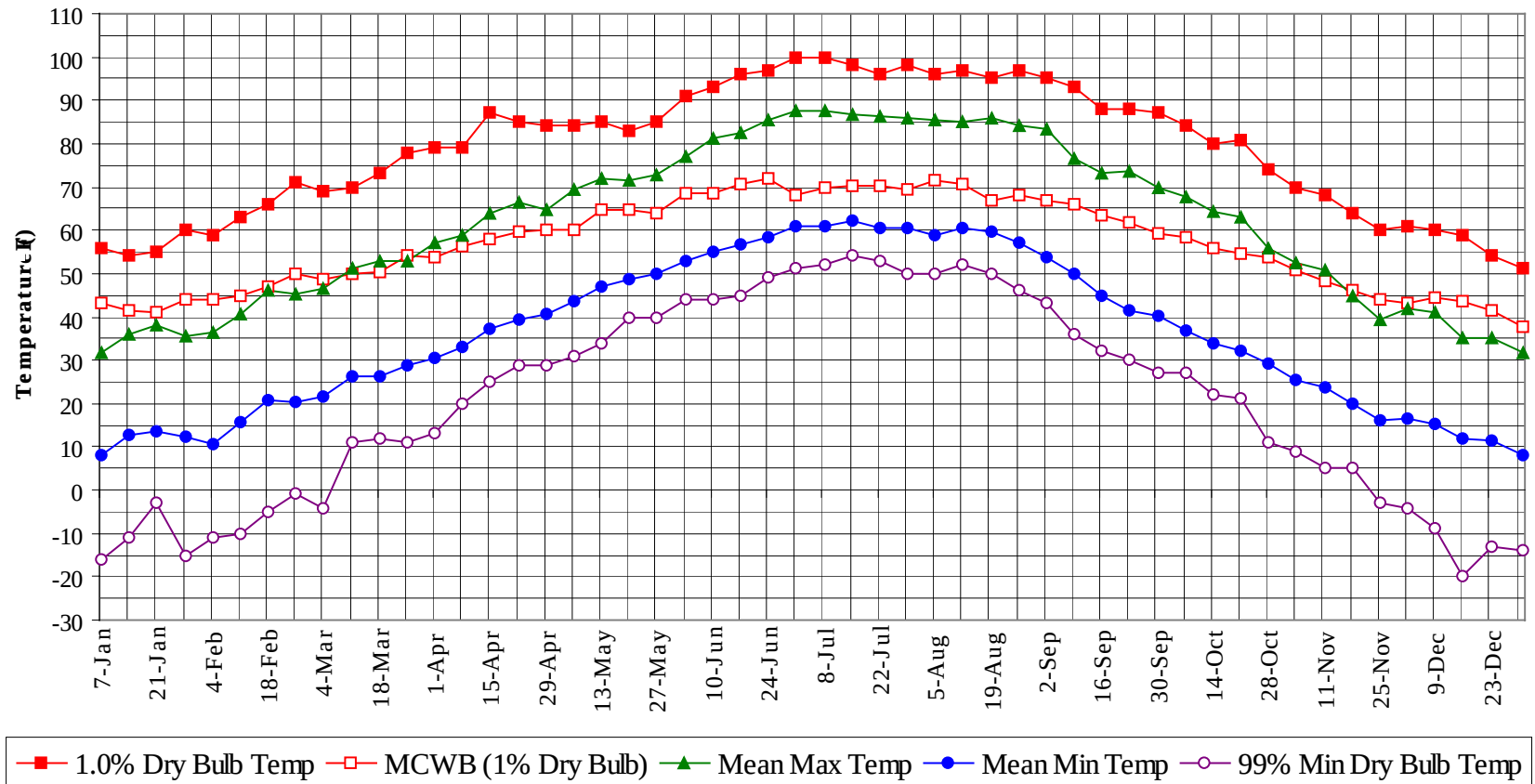
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

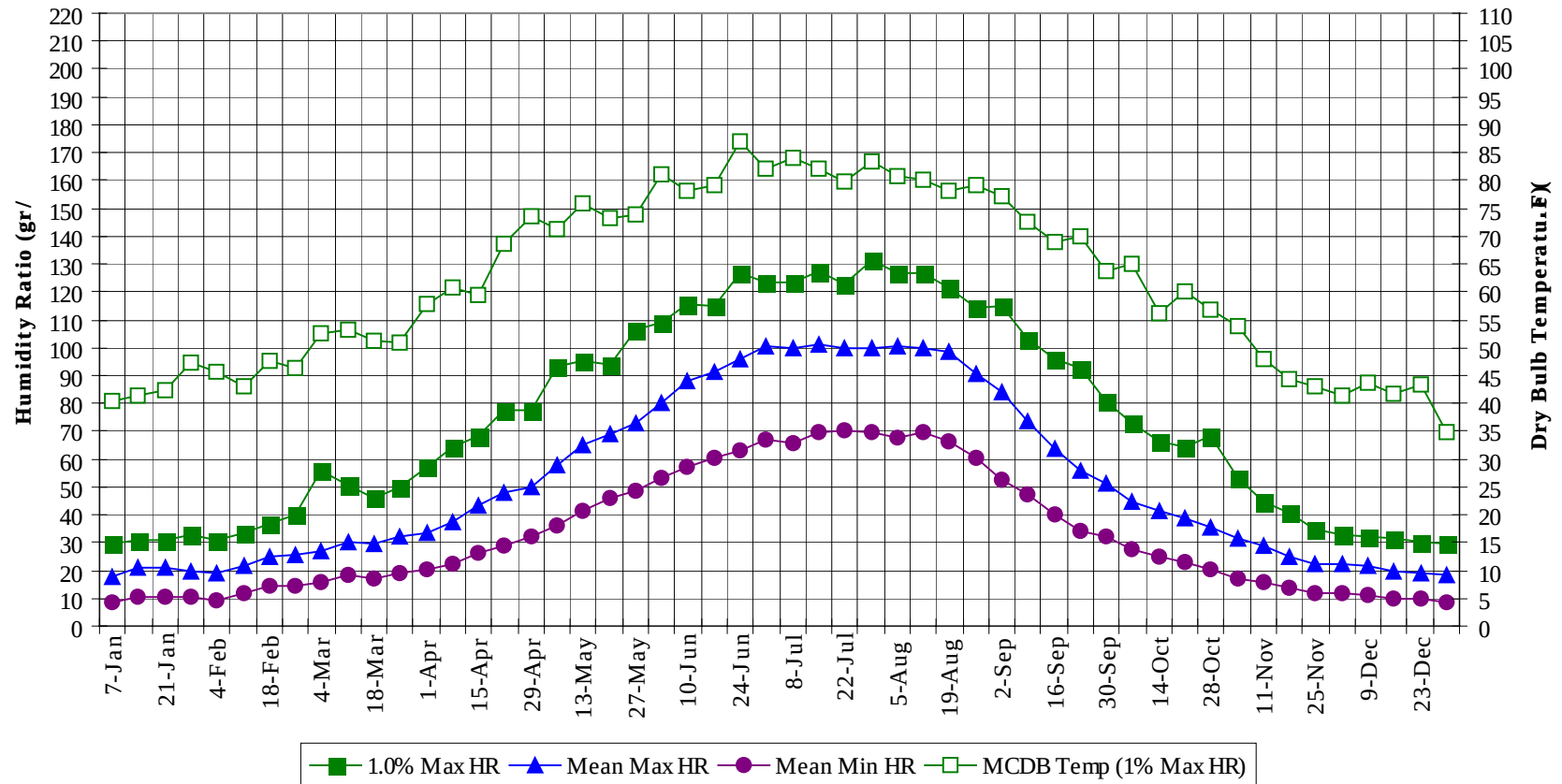
Temperature Range (°F)	Annual Totals				
	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		0	0	0	67.6
100 / 104		6	2	7	69.7
95 / 99		28	12	40	69.9
90 / 94	0	78	36	115	69.4
85 / 89	0	139	71	210	67.7
80 / 84	3	199	119	321	65.8
75 / 79	26	231	163	420	63.3
70 / 74	98	244	205	547	61.0
65 / 69	210	215	230	655	58.6
60 / 64	280	211	235	726	54.9
55 / 59	240	192	202	634	50.4
50 / 54	215	191	205	611	45.8
45 / 49	198	184	190	572	41.4
40 / 44	203	184	205	592	37.3
35 / 39	235	192	225	653	33.3
30 / 34	282	180	243	705	29.3
25 / 29	272	129	201	602	24.9
20 / 24	226	96	134	456	20.5
15 / 19	153	68	83	305	15.8
10 / 14	105	52	64	221	10.9
5 / 9	62	38	40	140	6.1
0 / 4	44	25	31	101	1.2
-5 / -1	25	9	15	49	-3.0
-10 / -6	22	8	13	42	-7.6
-15 / -11	13	4	7	24	-12.1
-20 / -16	8	1	1	10	-16.6
-25 / -21	1	0	0	2	-21.5
-30 / -26	0	0	0	1	-27.4
-35 / -31	0	0		0	-30.7

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



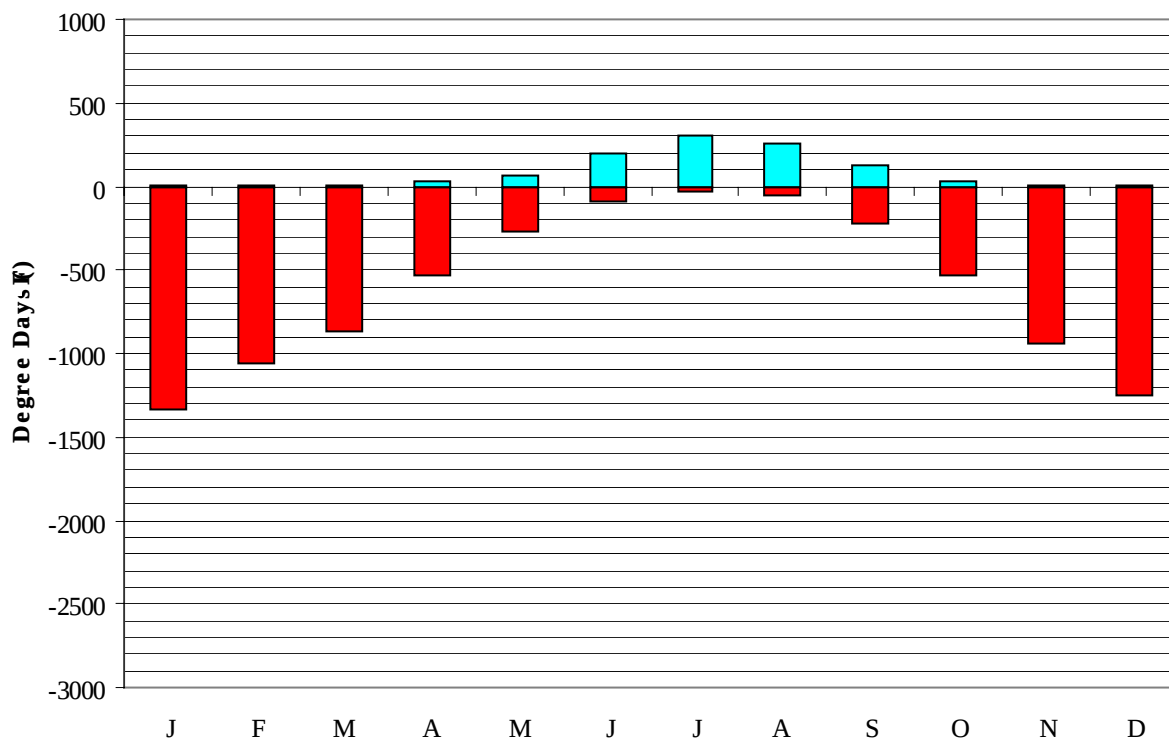
N. PLATTE/LEE BIRD NE

WMO No. 725620

Long Term Dry Bulb Temperature and Humidity Summary

Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	56.0	43.3	31.8	8.0	-16.0	29.4	40.5	18.0	8.5
14-Jan	54.0	41.6	35.8	12.5	-11.0	30.8	41.4	20.9	10.4
21-Jan	55.0	41.0	38.2	13.4	-3.0	30.8	42.2	21.0	10.3
28-Jan	60.0	44.2	35.4	12.3	-15.0	32.9	47.3	19.4	10.5
4-Feb	59.0	43.9	36.4	10.4	-11.0	30.8	45.8	19.1	9.5
11-Feb	63.0	44.9	40.5	15.6	-10.0	33.6	43.1	22.0	12.0
18-Feb	66.0	47.1	46.3	20.7	-5.0	37.1	47.5	25.1	14.2
25-Feb	71.0	50.1	45.5	20.4	-1.0	39.9	46.1	25.5	14.3
4-Mar	69.0	48.6	46.6	21.6	-4.0	56.0	52.5	27.0	15.5
11-Mar	70.0	50.1	51.1	26.4	11.0	50.4	53.3	30.4	18.2
18-Mar	73.0	50.5	53.1	26.3	12.0	46.2	51.3	29.3	17.0
25-Mar	78.0	54.3	53.0	28.7	11.0	49.7	50.9	32.2	19.1
1-Apr	79.0	53.8	57.1	30.4	13.0	57.4	57.7	33.3	20.1
8-Apr	79.0	56.3	58.6	32.8	20.0	64.4	60.7	37.5	22.4
15-Apr	87.0	58.1	63.8	37.3	25.0	68.6	59.4	43.1	26.6
22-Apr	85.0	59.7	66.6	39.4	29.0	77.7	68.5	47.6	28.6
29-Apr	84.0	59.9	64.8	40.6	29.0	77.7	73.4	50.2	32.0
6-May	84.0	60.2	69.3	43.8	31.0	93.1	71.2	57.9	36.4
13-May	85.0	64.6	72.1	46.9	34.0	95.2	75.9	65.0	41.6
20-May	83.0	64.7	71.5	48.8	40.0	93.8	73.2	69.2	46.3
27-May	85.0	64.0	72.6	49.8	40.0	106.4	74.0	73.0	48.7
3-Jun	91.0	68.5	77.2	53.1	44.0	109.2	81.2	80.4	53.2
10-Jun	93.0	68.7	81.2	55.2	44.0	115.5	78.1	88.0	57.2
17-Jun	96.0	70.6	82.7	56.7	45.0	114.8	79.0	91.3	60.4
24-Jun	97.0	71.8	85.4	58.6	49.0	126.7	87.2	95.8	63.4
1-Jul	100.0	68.0	87.7	60.9	51.0	123.2	81.9	100.6	66.7
8-Jul	100.0	69.9	87.7	60.8	52.0	123.2	84.0	99.9	65.5
15-Jul	98.0	70.4	86.8	62.2	54.0	127.4	82.0	101.4	69.5
22-Jul	96.0	70.1	86.2	60.7	53.0	122.5	79.9	99.8	70.0
29-Jul	98.0	69.6	85.8	60.3	50.0	131.6	83.5	99.6	69.7
5-Aug	96.0	71.5	85.6	59.0	50.0	126.7	80.9	100.4	67.6
12-Aug	97.0	70.8	84.9	60.5	52.0	126.7	80.0	99.5	69.4
19-Aug	95.0	67.0	85.9	59.5	50.0	121.8	78.0	98.2	66.1
26-Aug	97.0	68.2	84.0	57.1	46.0	114.1	79.2	90.7	60.7
2-Sep	95.0	66.9	83.2	53.9	43.0	114.8	77.2	84.2	52.8
9-Sep	93.0	65.9	76.7	49.8	36.0	102.9	72.4	73.6	47.6
16-Sep	88.0	63.6	73.4	45.0	32.0	95.9	68.9	63.9	39.8
23-Sep	88.0	61.7	73.5	41.4	30.0	92.4	69.9	55.8	33.9
30-Sep	87.0	59.4	69.9	40.2	27.0	80.5	63.7	51.2	32.1
7-Oct	84.0	58.3	67.8	36.8	27.0	72.8	65.1	44.6	27.9
14-Oct	80.0	56.0	64.2	33.9	22.0	66.5	56.0	41.2	25.0
21-Oct	81.0	54.4	63.3	32.4	21.0	64.4	60.2	38.6	23.3
28-Oct	74.0	53.6	56.0	29.1	11.0	68.6	57.0	35.2	20.6
4-Nov	70.0	50.8	52.4	25.2	9.0	53.2	53.9	31.5	17.4
11-Nov	68.0	48.1	50.6	23.6	5.0	44.8	47.8	28.9	16.0
18-Nov	64.0	46.3	44.8	20.0	5.0	40.6	44.2	24.7	13.7
25-Nov	60.0	44.0	39.3	16.2	-3.0	35.0	42.9	22.5	11.9
2-Dec	61.0	43.4	42.0	16.4	-4.0	32.9	41.3	22.1	11.6
9-Dec	60.0	44.3	40.9	15.4	-9.0	32.2	43.5	22.0	11.3
16-Dec	59.0	43.6	35.3	11.8	-20.0	31.5	41.6	19.6	9.9
23-Dec	54.0	41.7	35.2	11.6	-13.0	30.1	43.3	19.2	9.8
31-Dec	51.0	37.8	31.6	7.9	-14.0	29.4	34.9	18.1	8.5

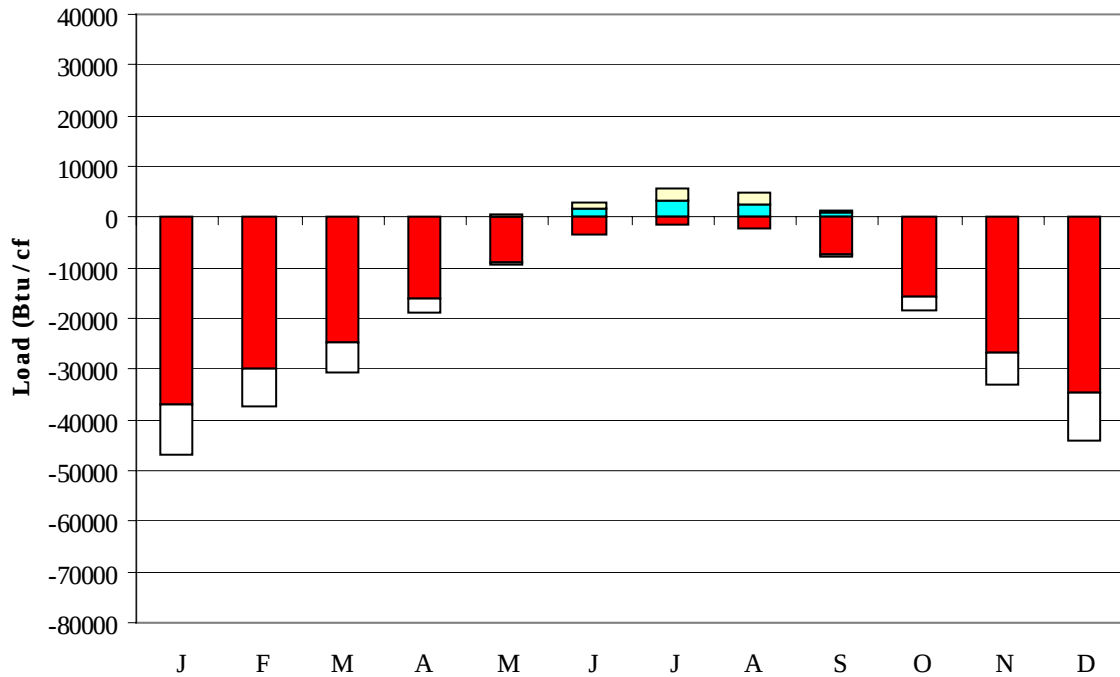
Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1333
FEB	1	1061
MAR	6	870
APR	29	533
MAY	67	270
JUN	194	89
JUL	309	32
AUG	258	51
SEP	121	219
OCT	32	528
NOV	3	935
DEC	0	1248
ANN	1019	7169

Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	Average Sensible Cooling Load (Btu/cfm)	Average Sensible Heating Load (Btu/cfm)	Average Latent Cooling Load (Btu/cfm)	Average Latent Heating Load (Btu/cfm)
JAN	0	-36955	0	-9734
FEB	0	-29699	0	-7778
MAR	16	-24886	0	-5880
APR	165	-15899	0	-2791
MAY	311	-8808	89	-470
JUN	1629	-3370	1156	-22
JUL	3159	-1488	2582	0
AUG	2447	-2163	2311	-2
SEP	1018	-7201	321	-398
OCT	171	-15805	2	-2483
NOV	1	-26539	0	-6369
DEC	0	-34757	0	-9265
ANN	8917	-207570	6461	-45192

Average Annual Solar Radiation – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

City: NORTH PLATTE
 State: NE
 WBAN No: 24023
 Lat(N): 41.13
 Long(W): 100.68
 Elev(ft): 2786

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.566
 Vert Gap: 0.325

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day), Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Global	700	960	1310	1680	1900	2170	2160	1890	1510	1130	750	610	1400
	Std Dev	50	56	101	112	124	134	100	96	135	101	47	33	35
	Minimum	580	820	1100	1480	1670	1880	1970	1690	1220	860	640	550	1320
	Maximum	800	1040	1520	1870	2210	2370	2330	2130	1740	1270	830	680	1470
	Diffuse	300	410	560	660	750	720	670	610	500	380	310	260	510
Clear Day	Global	890	1250	1760	2270	2590	2710	2620	2320	1880	1360	950	780	1790
NORTH	Global	200	270	360	440	550	630	590	470	360	280	210	180	380
	Diffuse	200	270	360	430	490	520	500	440	360	280	210	180	350
Clear Day	Global	180	230	310	420	590	710	640	470	330	250	180	160	370
EAST	Global	500	650	830	1020	1090	1200	1200	1080	900	740	510	440	850
	Diffuse	250	330	440	530	590	610	590	540	440	350	260	220	430
Clear Day	Global	710	920	1200	1420	1530	1550	1520	1420	1230	970	730	630	1150
SOUTH	Global	1280	1300	1230	1080	900	850	910	1060	1240	1390	1220	1210	1140
	Diffuse	370	440	520	540	560	550	540	530	490	430	370	340	470
Clear Day	Global	1990	2060	1900	1480	1130	960	1020	1290	1680	1950	1970	1930	1610
WEST	Global	510	660	830	1010	1070	1210	1230	1140	970	770	530	450	870
	Diffuse	250	340	450	530	600	620	600	550	450	350	260	220	440
Clear Day	Global	710	920	1200	1420	1530	1550	1520	1420	1230	970	730	630	1150

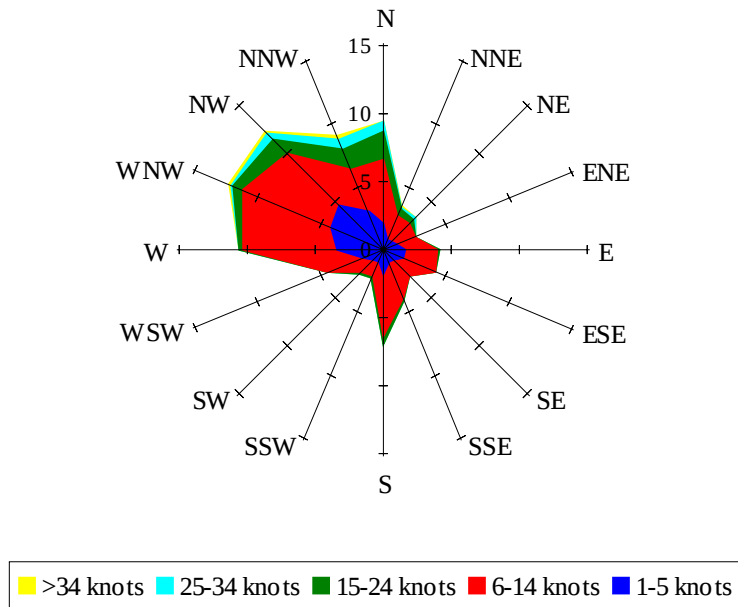
Average Annual Solar Heat and Illumination – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	450	650	920	1210	1380	1590	1580	1380	1080	780	490	380	990
NORTH	Unshaded	140	190	250	300	360	410	380	310	250	190	150	120	250
	Shaded	120	160	220	270	320	360	340	280	230	170	130	110	230
EAST	Unshaded	340	450	590	730	780	860	850	770	640	530	360	300	600
	Shaded	310	400	510	630	660	720	720	650	550	460	320	270	520
SOUTH	Unshaded	960	960	860	710	560	500	540	670	840	1000	920	920	790
	Shaded	940	890	670	440	340	340	340	380	580	880	890	900	630
WEST	Unshaded	350	460	590	720	770	860	870	820	690	540	370	310	610
	Shaded	320	410	510	620	650	720	730	700	600	480	330	280	530

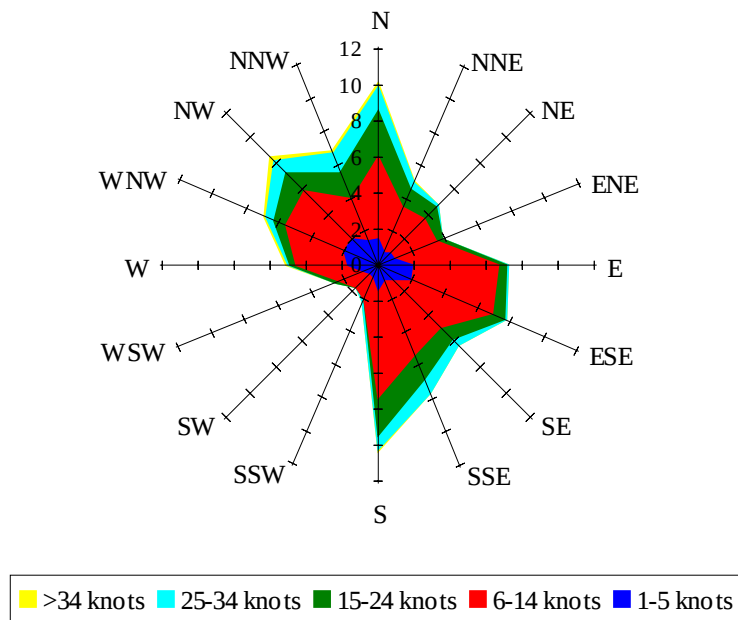
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	26	64	81	72	40	35	75	99	100	80
	M.Cloudy	16	42	56	50	28	24	52	71	74	60
NORTH	M.Clear	7	12	14	14	10	22	14	16	16	15
	M.Cloudy	7	14	17	16	10	14	16	18	18	17
EAST	M.Clear	70	70	25	14	10	74	81	47	16	15
	M.Cloudy	25	37	22	16	10	34	50	36	18	17
SOUTH	M.Clear	28	68	86	77	44	9	25	46	48	30
	M.Cloudy	13	36	50	44	23	9	21	36	38	26
WEST	M.Clear	7	12	14	55	76	9	14	16	36	75
	M.Cloudy	7	14	17	35	37	9	16	18	31	53
M.Clear	(% hrs)	32	32	31	29	29	44	46	46	46	43
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	15	56	82	83	60	5	33	46	36	8
	M.Cloudy	9	34	52	56	40	4	22	32	24	6
NORTH	M.Clear	6	12	15	15	12	2	8	10	9	4
	M.Cloudy	4	12	16	17	13	2	8	11	9	3
EAST	M.Clear	51	78	45	15	12	21	48	13	9	4
	M.Cloudy	16	35	29	17	13	6	23	12	9	3
SOUTH	M.Clear	10	49	75	76	52	16	73	94	79	26
	M.Cloudy	5	24	42	47	31	5	32	45	35	9
WEST	M.Clear	6	12	15	38	75	2	8	10	45	32
	M.Cloudy	4	12	16	28	40	2	8	11	23	11
M.Clear	(% hrs)	44	47	50	50	52	38	38	37	39	40

Wind Summary - December, January, and February **Labels of Percent Frequency on North Axis**



Percent Calm = 6.98

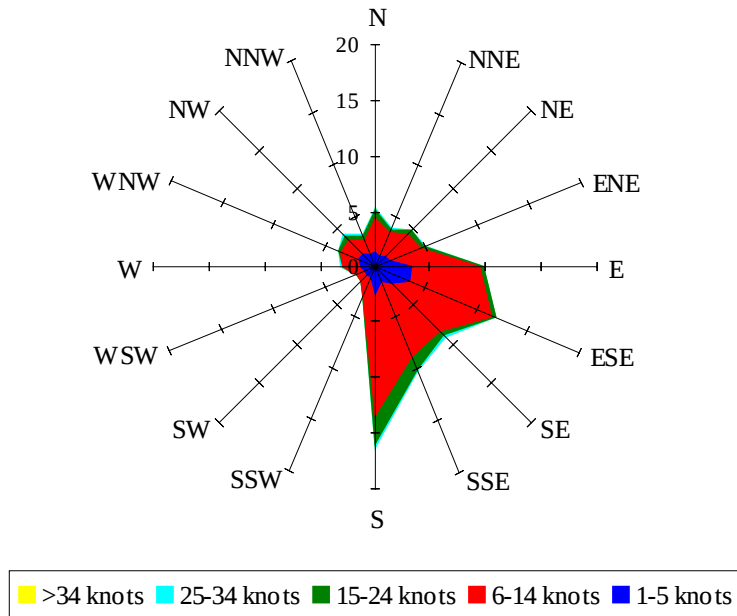
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 3.76

Wind Summary - June, July, and August

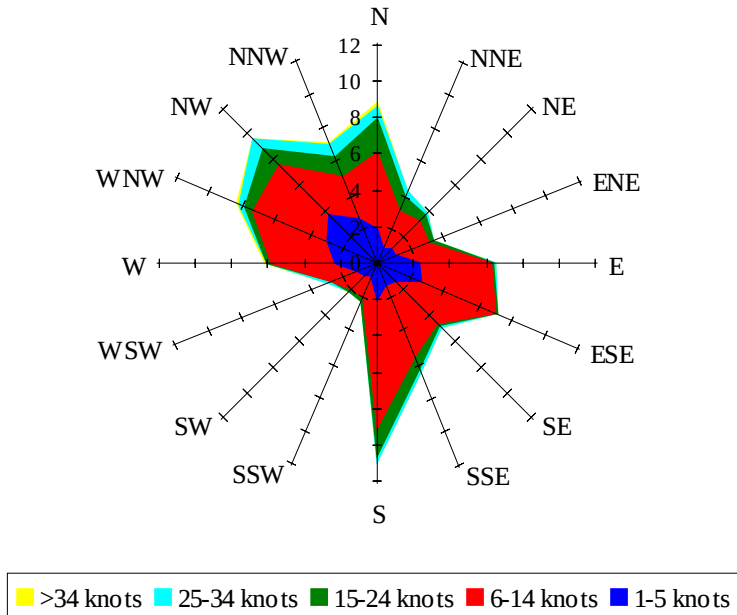
Labels of Percent Frequency on North Axis



Percent Calm = 4.62

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 6.02